

FIG. 1

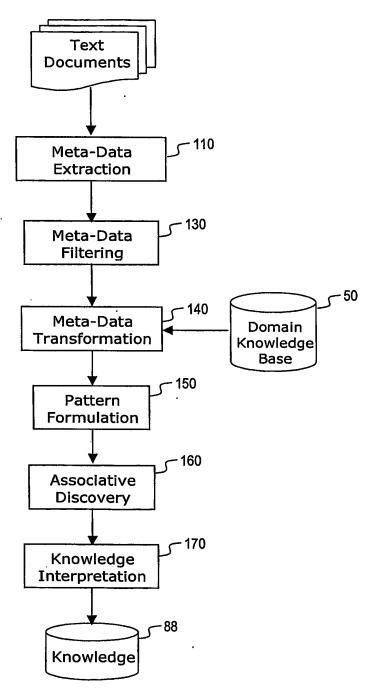
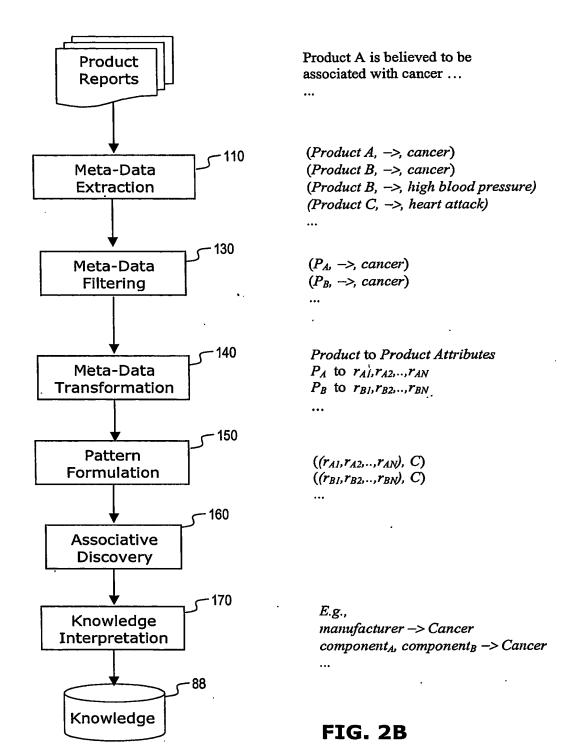


FIG. 2A



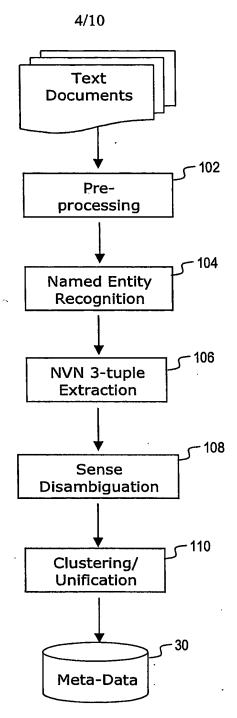


FIG. 3

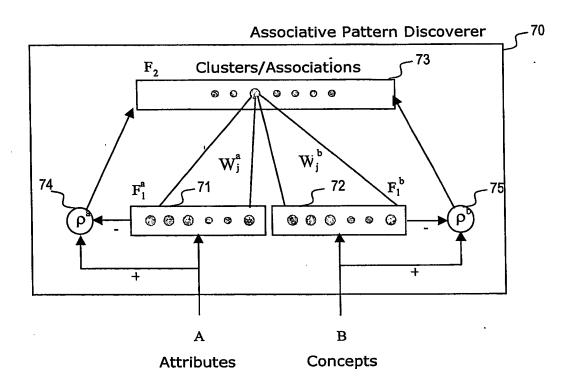


FIG. 4

Category choice:
$$T_{j} = \gamma \frac{|A \cap W_{j}^{a}|}{\alpha^{a} + |W_{j}^{a}|} + (1 - \gamma) \frac{|B \cap W_{j}^{b}|}{\alpha^{b} + |W_{j}^{b}|}$$

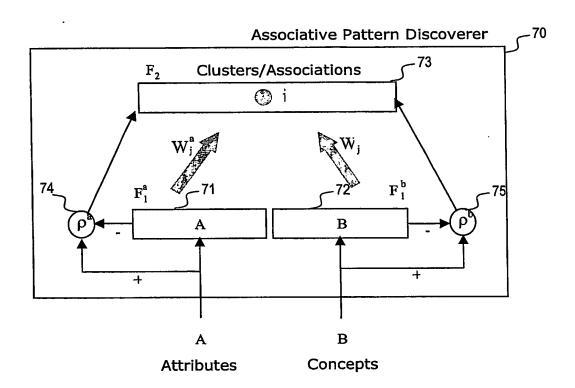


FIG. 5

Template learning

$$\begin{split} w_{J}^{a(new)} &= (1 - \beta^{a}) w_{J}^{a(old)} + \beta^{a} (A^{\wedge} w_{J}^{a(old)}) \\ w_{J}^{b(new)} &= (1 - \beta^{b}) w_{J}^{b(old)} + \beta^{b} (B^{\wedge} w_{J}^{b(old)}) \end{split}$$

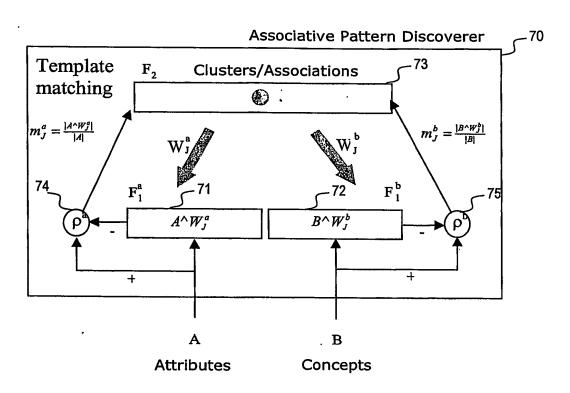
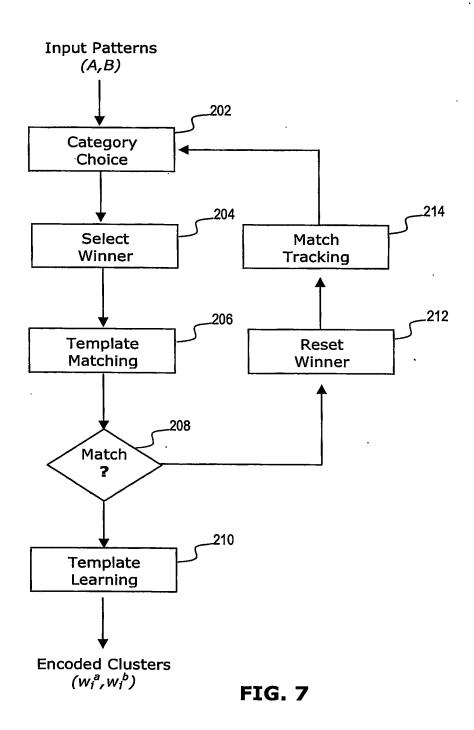


FIG. 6



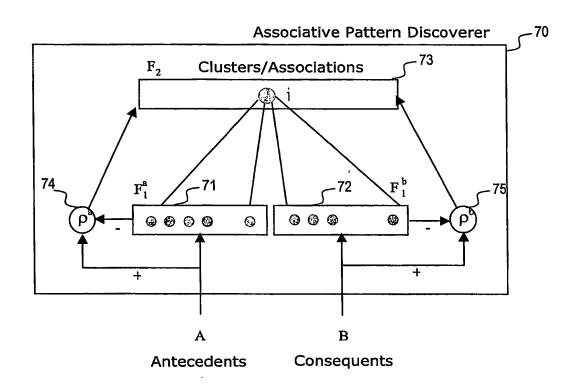


FIG. 8

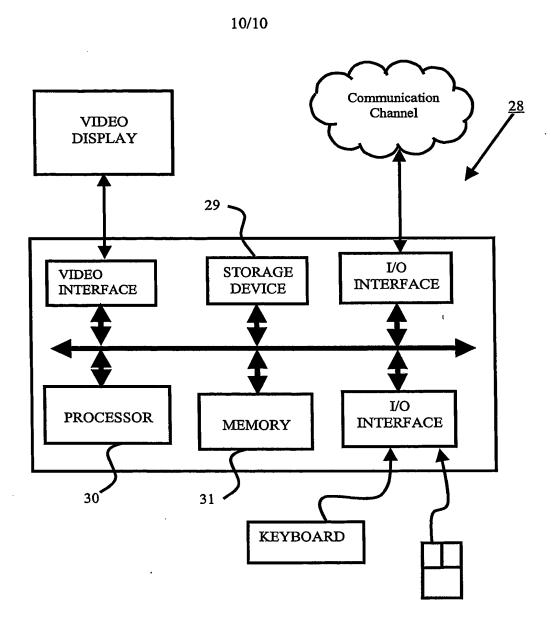


FIG. 9